Munitions New Equipment Training Branch

US ARMY ARDEC
Picatinny Arsenal, New Jersey

Cartridge, 12 Gauge Breaching M1030

COURSE OUTLINE

1. SYSTEM DESCRIPTION

2. PACKAGING & EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

1. PMCS & SAFETY

2. HANG FIRE

3. MISFIRE

LESSON ONE

SYSTEM DESCRIPTION

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- The M1030 12 Gauge Breaching Cartridge devastates door lock mechanisms, hinges and padlocks to allow rapid entry into sealed areas.

- effectively breaches 1 ¾ inch solid wood doors; effectiveness against metal doors is still undetermined.

- fired in Army Standard Issue shotguns with 2 ¾ and 3 inch chambers; Mossberg 500 & 590, Remington 870

- projectile is non-explosive, non-shrapnel, and does not contain any materials considered hazardous by the Environmental Protection Agency.

- projectile disintegrates upon impact making it safer to use than shot or slug rounds due to the absence of blowback towards gunner.

- firing does not require the use of additional sighting or muzzle devices and will not degrade the performance or useful shotgun life, however using a standoff device would be beneficial.

- cartridges are able to function and withstand hot, basic, and cold climates IAW AR 70-38 and are easily recognized from all other 12 Gauge cartridges.

- cartridge consists of a plastic shot shell case crimped onto a brass cartridge case that contains smokeless powder and a percussion primer.

- shot shell payload is frangible powdered steel with wax binder in a plastic shot cup.

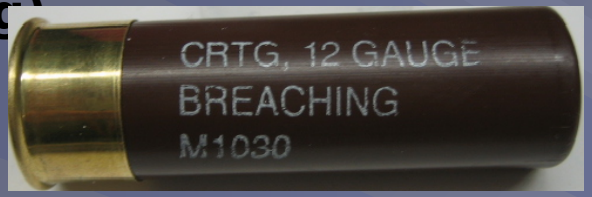
LESSON TWO

PACKAGING/STORAGE

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

PACKAGING/STORAGE

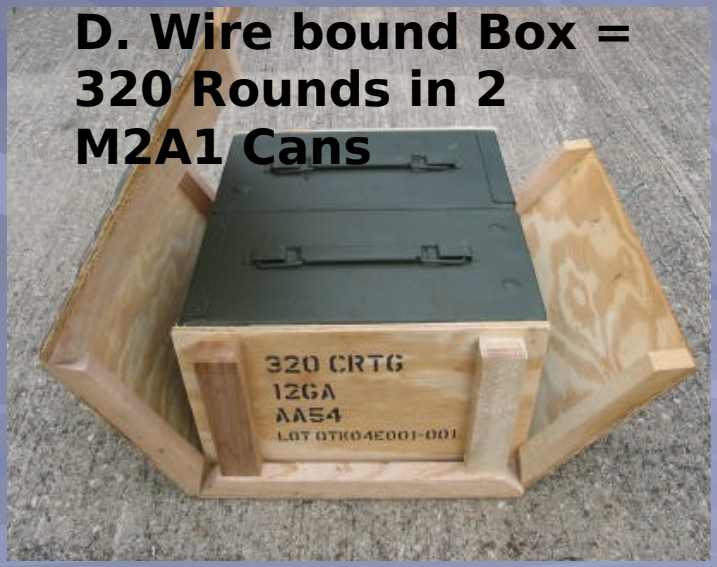
A. M1030 Cartridge = 1 Round (51.8g)



B. Paperboard Box = 5 Rounds

C. M2A1 Can = 160 Rounds per M2A1 Can (32 cartons)

D. Wire bound Box = 320 Rounds in 2 M2A1 Cans



E. M1030 Cartridges should be stored as any other 12-Gauge ammunition

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

The M1030 contains a frangible slug consisting of powdered steel with a wax binder. The cartridge is 2.45 inches long with a diameter of 0.88 inches.

TABULATED DATA:

NSN 1305-01-475-7440
material ..... Powdered steel
DODAC..... 1305-AA54
Ogive ..... Plastic

Color..... Brown
COMPLETE ROUND:
Weight ..... 40 g

Fuze ..... None
Type ..... Breaching
Weight 51.8g
Length ..... 2.45 in.
Diameter..... 0.88 in.
case..... Brass case
Weapons used with..... Mossberg500 &590,
Propellant ..... Herco, 23 gr (1.5 g)
Remington 870
Primer..... Percussion, WIN 209

PROJECTILE:

Filler

PROPELLING CHARGE:

Cartridge

LESSON THREE

PMCS &SAFETY

PMCS

1. Visually inspect the exteriors of all paperboard boxes for discolored areas.

2. Visually inspect each cartridge for wax deposits that are clear to light yellow in color, the case mouth for bulges, the case mouth overshot card for discoloration, look for loose sealant at the case mouth overshot card, and corrosion on metal heads.

SAFETY

1. DO NOT FIRE CARTRIDGES WITH VISUAL ABNORMALITIES.

2. When firing weapon wear the approved safety goggles:
a. ESS Land Ops Goggles Kit (with anti-reflective sleeve), Foliage Green, NSN:4240-01-540-5576
b. ESS Land Ops Goggles Kit (with anti-reflective sleeve), Desert Tan, NSN:4240-01-540-5580

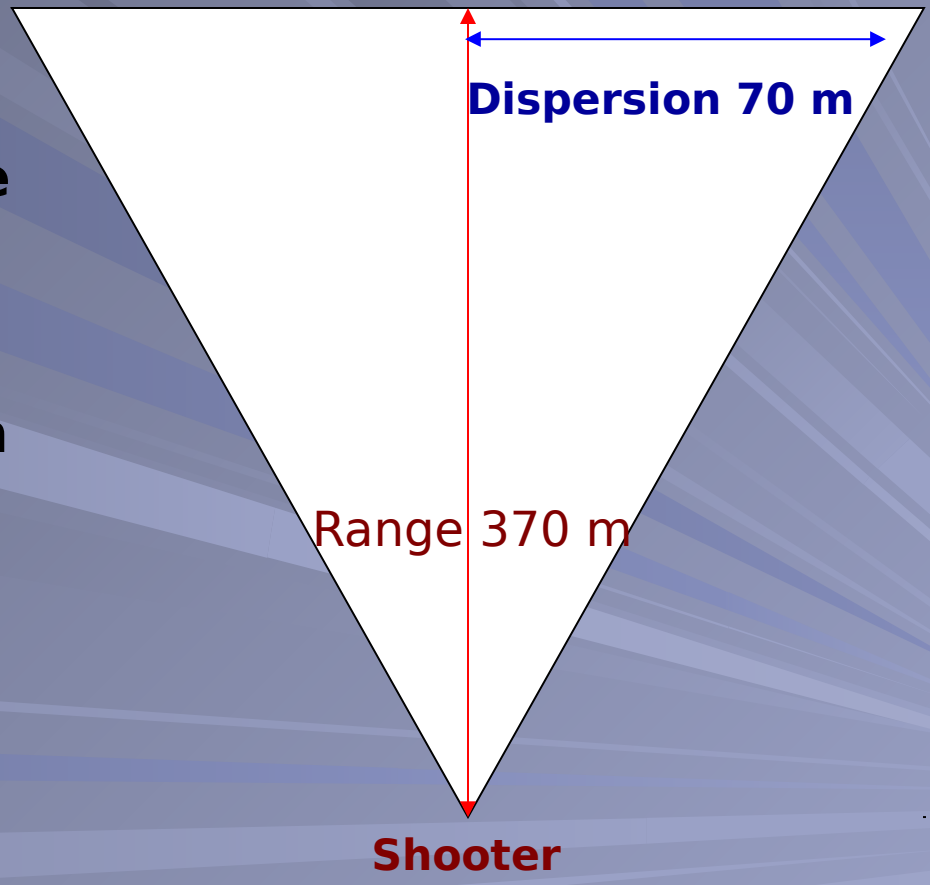
Goggle lens is a single-piece, high-impact design with anti-scratch, anti-fog coatings providing ballistic-fragment and UVA/UVB protection. Lens is 2.4mm thick and meets MIL V-43511C ballistic impact requirements. The anti-reflective sleeve reduces glint when goggles are

3. Double-hearing protection and eyes protectio (goggle) will be worn by personnel firing the we and by personnel in close proximity of the weap during door breaching operations when firing in close proximity to a reflective surface (e.g. within 2 meters

SAFETY, cont

4. Surface Danger Zone

The maximum distance/range for the M1030, 12-Gauge Breaching Cartridge is 370 meters. The maximum dispersion distance is 70 meters.



LESSON FOUR

HANG FIRE

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Hang fire: **Extended delay (up to a second or more) between the firing pin blow and the ignition of the powder, usually caused by old or contaminated primer/propellant which ignites slower than usual.**

WARNING

Clear all personnel from the area.

1. Keep the muzzle pointed in a safe direction.

2. Wait 30 seconds before ejecting cartridge

3. With the opening in the action pointed away from your face, eject the cartridge and examine it. A dented primer is a hang fire.

LESSON FIVE

MISFIRE

MISFIRE

Misfire: **A failure of the priming mixture to be initiated after the primer has been struck by a firing-pin or the failure of the initiated primer to ignite the powder. A dented primer is also an ammo misfire while no hit is a weapon misfire.**

WARNING

Clear all personnel from the area.

1. **Wait 30 seconds before ejecting cartridge**

2. **Unload the round and catch it, or unload close to ground for a short fall.**

3. **Store the round at a safe distance away from serviceable ammunition until**
   it is determined whether the round or the weapon is defective.

4. **If the primer is not dented, the firing mechanism is faulty.**

5. **Notify the NCO or unit armorer.**